

19980405.ba v02_n000.bam.980405

>From ???@??? Sun Apr 05 18:58:29 1998
Message-Id: <199804052051.PAA01471@sco.theporch.com>
Date: Sun, 5 Apr 1998 15:50:34 CDT
Subject: BOATANCHORS digest 2000

BOATANCHORS Digest 2000

Topics covered in this issue include:

- 1) R-388 Knobs
by DCrespy <DCrespy@aol.com>
- 2) Re: TBX-2 is one cool radio
by "Mike B. Feher" <n4fs@monmouth.com>
- 3) C-4 Console sold
by Bill Wilson <billo@internettpport.net>
- 4) Re: Recapping question on SX28 and SP600
by "Steve" <scb@mail.internettpport.net>
- 5) Re: info needed on Geloso rig
by "Steve" <scb@mail.internettpport.net>
- 6) Looking For AN/GRC-9
by Dick Dillman <ddillman@igc.apc.org>
- 7) 516-f2 supplies.
by gcr2@po.CWRU.Edu (George C. Rybicki)
- 8) Re: Recapping question on SX28 and SP600
by "Arden Allen" <gumbear@pacbell.net>
- 9) Re: Help with Heath SB-102
by "Arden Allen" <gumbear@pacbell.net>
- 10) Re: Cleaning smoke residue
by "James True N5ARW" <n5arw@ibm.net>
- 11) Reforming 'lytics
by Scott Townley <nx7u@primenet.com>
- 12) Microsurgery (again)
by Henry van Cleef <vancleef@netcom.com>
- 13) Wanted: junker RBA and RBB/C
by William Donzelli <william@ans.net>
- 14) Another wanted: GO-9 parts
by William Donzelli <william@ans.net>
- 15) Re: HV power supply question??
by Henry van Cleef <vancleef@netcom.com>
- 16) Re: Very large capacitors and inductors
by Ho4bart <Ho4bart@aol.com>
- 17) Re: Lafayette KT-200 (way too long)
by Ho4bart <Ho4bart@aol.com>
- 18) Watkins Johnson manuals wanted
by BEN NOCK <G4BXD@compuserve.com>
- 19) Re RAYTHEON tubes

- by philip mccooy <dgnova@erols.com>
- 20) Re Geloso
by philip mccooy <dgnova@erols.com>
- 21) Re reforming 'lytics
by philip mccooy <dgnova@erols.com>
- 22) Re: Re reforming 'lytics
by polepeeg@aa4rm.ba-watch.org (BA Marina Electrician)
- 23) WTB - electrolytics needed!
by Phil Mills <pmills@a.crl.com>
- 24) ADMINISTRIVIA: Using The Archives
by listown@jackatak.theporch.com (Mail List Owner)
- 25) Hallicrafters for sale
by JONWEINER <JONWEINER@aol.com>
- 26) Re: Reforming electrolytics (and bringing up old equipment)
by Henry van Cleef <vancleef@netcom.com>
- 27) Re: Re reforming 'lytics
by "Benjamin D. Hall" <kd5byb@WT.NET>
- 28) Zzzzt! Ow!
by Dick Dillman <ddillman@igc.apc.org>
- 29) Moore Coil winder-anyone ever use one?
by john <johnmb@mindspring.com>

From: DCrespy <DCrespy@aol.com>
Message-ID: <daf1eef1.13526e0a8@aol.com>
Date: Sat, 4 Apr 1998 20:38:46 EST
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: R-388 Knobs
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

My R-388 knobs have some sort of clear finish that is flaking off in places. I'll have to get it all off to polish them up. Any idea what it is, and how to get it off safely ??
(this radio is a Navy model, and has the 'antifungal' (?) coating on the metal parts.)

Harry

Message-Id: <199804050140.UAA24035@shell.monmouth.com>
From: "Mike B. Feher" <n4fs@monmouth.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: TBX-2 is one cool radio
Date: Sat, 4 Apr 1998 20:43:51 -0800
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

As an interesting observation I checked my TBX2 and TBX8 radios. My TBX2 is clean, without radium, but the TBX8 is as hot as some of the Japanese W.W.II rigs. Regards - Mike

Mike B. Feher, N4FS
89 Arnold Blvd.
Howell, NJ, 07731
732-901-9193

Message-ID: <3526E2C9.B1C33CFA@internettpport.net>
Date: Sat, 04 Apr 1998 19:47:54 -0600
From: Bill Wilson <billo@internettpport.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: C-4 Console sold
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to all that replied, the C-4 is spoken for.

Regards,

Bill
W4BIZ
Jacksonville, Al.

Message-Id: <199804050239.UAA19586@loki.internettpport.net>
From: "Steve" <scb@mail.internettpport.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 4 Apr 1998 20:24:01 +0000
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: Re: Recapping question on SX28 and SP600
CC: boatanchors@theporch.com

You use the best overrated milspec polyprops you can find (Sprague 715P are an acceptable alternate otherwise) appropriate to the max surge voltage for the part of the circuit. The AVC/AGC loop & cathode bypasses, as well as parts of the low level audio circuit don't generally see more than 50 volts, 100 V caps are OK. However filamentary rectifier tubes(5Y3/5U4/5R4/5Z3/80,ect) and solid state rectifiers typically put a full peak unloaded turn-on surge thru the entire B rail in most tube sets(470 S.V. for normal 325 W.V.). For

receivers, 600 volt caps are good life insurance on all plate & screen circuits unless there is a true voltage divider with known good power resistors(I like the Cornings as replacements, available in most values and ratings as RCA Flameproofs), and the surge peak is known. Avoid oil/paper caps & Vitamin Q types(IMHO) unless you really enjoy doing this sort of thing over again in the same inaccessible locations. Same for phenolic carbon resistors. Do check all resistors while in those decks & coil cans and replace w/metal or carbon film high quality. Lastly, Check the tubes before reinstallation for shorts that could smoke your work after reassembly & be sure that all solder drips, droops & splash as well as wire clippings are cleaned up and accounted for, as well as checking for dry & frosty joints & cleaning up sloppy prior work.

Good Luck; Steve Bringhurst

Message-Id: <199804050254.UAA20086@loki.internettport.net>
From: "Steve" <scb@mail.internettport.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 4 Apr 1998 20:38:25 +0000
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: Re: info needed on Gelooso rig
CC: Boatanchors@theporch.com

Hi Gang;

I have some Gelooso odds & ends here, recorder accessories and a salvaged tube paging amp, and have seen a new-in-box Gelooso VFO at a local flea market, all marked Italy. Could this be the same John Gelooso that had an association with Pilot during the Wasp / Super Wasp days (late '20s-early '30s)? Very popular SW regen sets.

Steve Bringhurst

Date: Sat, 4 Apr 1998 18:55:12 -0800 (PST)
Message-Id: <2.2.16.19980404185457.3b8f20c6@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: Looking For AN/GRC-9

Greetings, fellow enthusiasts. I'm writing to report that I've been bitten by the Angry Nine bug. Actually the bite occurred when I visited Wim Kramer of Bunnik, The Netherlands about a year ago, Wim being the founder of the

Angry Nine club and publisher of "Q-5", both now sadly defunct.

Be that as it may I'm now seriously on the hunt for an AN/GRC-9 of my own. Naturally I'm looking for the best set with the most accessories I can find. All leads, advice or offers greatly appreciated.

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Message-Id: <199804050318.WAA25514@piglet.INS.CWRU.Edu>
Date: Sat, 4 Apr 1998 22:18:43 -0500 (EST)
From: gcr2@po.CWRU.Edu (George C. Rybicki)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: 516-f2 supplies.

The previously mentioned capacitor failure in the Collins supplies is very common. I've repaired several like that, usually ruins the bleeder resistors too. The function of the capacitor is to resonate the filter choke at 120 hz, the ripple output freq of the half wave rectifier. This prevents the filter cap volatge from soaring under no load and as the choke swings under load, the ripple voltage adds to the output voltage, effectively improving the regulation. Its a nice design that I've copied into many supplies I've built since. 73 George

Message-Id: <199804050331.TAA00489@mail-gw5.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Recapping question on SX28 and SP600
Date: Sat, 4 Apr 1998 19:33:15 -0800
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello Cathode Followers;

Steve, you said:

>Avoid oil/paper caps & Vitamin Q types(IMHO) unless you
> really enjoy doing this sort of thing over again in the same
> inaccessible locations.

Good advice all around but I have a question about Vitamin Q's.

Are you speaking about Sprague military grade metal/glass hermetically sealed caps or something else? Every one of the VQ's I have test like new caps but are at least 30 years old. What should I know about these caps? I always thought that they were the finest made for their time. By the way, you should mention that any caps used for RF/IF byppass and coupling should be known to be non-inductively wound. Polyester and Mylar caps are good also although I never use anything rated under 200 volts. You never know when you might produce a voltage transient while changing tubes and so forth. Just my thots for your consideration.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199804050352.TAA03963@mail-gw5.pacbell.net>

From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Help with Heath SB-102

Date: Sat, 4 Apr 1998 19:54:23 -0800

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Bob;

> On strong signals of S-9 or more, the audio is distorted with what I
> would call "hum modulation". On weak signals, they are crystal clear.
> This is with the RF gain at max.

Not being familiar with the SB-102 I will only suggest one possible cause. Depending on how well power supply components are isolated (usually by bypass capacitors) from signal paths, the "hum modulation" may be caused by a strong signal being modulated by the action of rectifiers turning on and off at the power line frequency. The problem could be in the SB-102 (not likely to be not properly bypassed) or in another piece of equipment that was not designed to live in an RF environment. Although it does not seem logical to not hear hum on weak signals it may be that the hum is masked by the noise associated with weaker signals. If the problem is in the SB-102 itself the hum will show up when using a signal generator DIRECTLY CONNECTED to the receiver. The signal generator needs to have a well filtered/regulated power supply so the signal it generates is free of

hum. Hope this is of some help.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199804050446.EAA20204@out5.ibm.net>

From: "James True N5ARW" <n5arw@ibm.net>

To: Old Tube Radios <boatanchors@theporch.com>

Date: Sat, 04 Apr 98 10:44:05 -0600

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Subject: Re: Cleaning smoke residue

My favorite cleaning solution is Simple Green. It will melt away smoking residue. I don't know if it has any long term ill effects, but is it bio-degradable etc. so hopefully it won't hurt anything. Mix it with water starting with 32:1 and use progressively stronger solutions until you get the results you want. Usually, a mild solution will do the trick.

That's my 2p

73

James

~~~~~  
James True N5ARW n5arw@ibm.net  
128 Parkhill 501-318-1844  
P.O. Box 820 501-623-8783 FAX  
Hot Springs National Park, AR 71902-0820  
~~~~~

Message-Id: <3.0.1.16.19980404221259.2907f256@mailhost.primenet.com>

Date: Sat, 04 Apr 1998 22:12:59

To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Townley <n7xu@primenet.com>

Subject: Reforming 'lytics

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I know it's been covered many times, and I should have saved them, but... Any advice on firing up electrolytic-capacitor-containing equipment for the first time in who knows how many years? Obviously a slow rise on a Variac is adviseable; any "let it set for so long" or regimens known to the community to increase my probability of

success?

Thanks in advance...

Scott Townley
Gilbert, AZ
nx7u@primenet.com

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199804050601.WAA10140@netcom3.netcom.com>
Subject: Microsurgery (again)
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 4 Apr 1998 23:01:17 -0700 (MST)
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Well, I put no.2 Q-meter back together. All nice and clean, nice fresh lube on the moving parts, and really looks superb. Now to to plug and play!

Everything works just fine except:

Bands 1 and 2, the oscillator is dead. What's the story? Popped the bottom cover off the oscillator and rotated the turret around so that I could get at the coil connections. You can check everything except the oscillator grid tickler coil. However, I saw some spaghetti waving in the breeze, so the story was pretty obvious on band 2. Broken wire from the tickler coil to the contact pins.

Fortunately, on a 260-A, the coils are fairly easy to take out. Remove the turret from the oscillator (not too difficult). There are four wires to each 2-coil assembly; two resistors (metering resistors for the oscillator screen feed), and two trimmer capacitor connections. The pins are straight, no step, so these just slide off when heated. Four screws fastening the coil-and-terminal assembly to the turret, and out comes one of the four assemblies. Unfortunately, what's on this assembly is band 2 and 3. However, Band 1 has the same problem (broken tickler wire), and I think I can get at it without taking the assembly out, since removing one assembly leaves a lot of space.

The fix is simple: just solder a short length of #22 bus wire to the terminal pin, and connect the end of the wire that was broken off to it. I'm not sure why Boonton felt they needed to put spaghetti on a skinny little wire like that---looks to be about #36 or #38.

This Q-meter was nice and clean, but inside, it was one mighty sick Q-meter. Thus far it has needed the thermocouple fixed (fortunately, it was not burned out), new oscillator and Q-voltmeter tubes, and some serious contact cleaning plus Deoxit. One bit of cleaning to be done on the coil assembly that is out of the unit is to remove all the petrified flux that Boonton left on there.

Oddly enough, this makes two Q-meters where all the original 1955 capacitors and resistors check out "in spec." I wonder where Boonton bought their composition resistors. The two units I have are, oddly enough, only 45 serial numbers apart. They originally had 2-wire power cords that had been replaced with 3-wire, and both of them had the neutral connected to the hot side of the Q-meter circuits. I swapped those around so that hot goes to the fuse and switch.

--

=====
Hank van Cleef
=====

Date: Sun, 5 Apr 1998 01:07:05 -0500 (EST)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: junker RBA and RBB/C
Message-Id: <Pine.GS0.3.96.980405005159.19204A-100000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Its time to get back on track, so I think my first projects will be to get some of the sad looking RBA/RBB/RBCs that followed me here working. I need mostly just parts. For example:

An outer case for an RBA (-1, -2, or -3), I do not care about the color, condition of the paint, or if it even has a datatag, but I do want one with no "bonus" holes or dents.

The big metal faceplate with the control inscriptions, from the right half of an RBB or RBC. Once again, I only care about the condition of the metal - no holes, dings, or scratches.

I need lots more, no doubt, but most of those are small things.

If you have these bits, let me know. I will buy the whole junkers to get what I need, if I have to (providing that the things are not too far away!).

I also have a bunch of RBA parts, if anyone needs something for their restoration projects.

Thank you.

William Donzelli
william@ans.net

Date: Sun, 5 Apr 1998 01:14:52 -0500 (EST)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Another wanted: G0-9 parts
Message-Id: <Pine.GS0.3.96.980405011122.19204B-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does anyone on the list have a junker G0-9 power supply (the middle section of the three)? I need a transformer.

I could also use lots of the little meter emblems and switch nameplates, as many of mine are very corroded.

William Donzelli
william@ans.net

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199804050808.AAA07009@netcom7.netcom.com>
Subject: Re: HV power supply question??
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sun, 5 Apr 1998 01:08:56 -0700 (MST)
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As Phil Mills discourses

>
> Ladies and gentlemen,
>
> I've looked at the power supply sections in both my E&E handbook
> and ARRL handbook and did not find any info on this.
>
> What is the purpose of the capacitor placed across the terminals
> of the filter choke? I've seen this in several HV supplies.
>
> Now, if you want to know why I ask....the one in my big homebrew

> amp power supply appears to have cratered and I'm wondering what
> the consequences will be if I simply remove it and do not replace it.
> If I do need to replace it, what would be an appropriate value or
> how would I calculate the appropriate value?
>

Somewhere in one of my texts is the subject of tuned filters in power supplies, and this sounds like one of them. I'll have to go look at it, because I have never actually tried to tune a power supply circuit. I suspect it would be a bit exciting, and would want to know what the voltages across the choke coil and parallelling cap work out to be.

The frequency you would want to tune for would be twice the power line frequency---that is, 120 Hz. in the US, 100 Hz in Europe. Resonance takes place when the capacitive reactance equals the inductive reactance. In this case, $-jZ = +jZ$. In the series case, this is a low impedance node: in the parallel case, it is high impedance, with the resistive component limiting the depth of the node. Very exciting things happen at resonance, and you can get lots of volts at the end of the coil-capacitor opposite the driving end (or the junction, for the series case). This current (voltage) magnification is $Q \times$ exciting current (voltage). (This is the voltage a Q-meter measures). The effective Q of the circuit includes the shunt impedances of the load and of the driving supply.

Power supply ripple is not "one frequency," but a fairly long Fourier series of harmonic frequencies. The components depend both on whether you are talking half wave or full wave, and just how sharp the switching is in the power supply diodes. Note that the tuned circuit will be resonant at only one frequency, and won't respond to the harmonics.

I've assumed here that the objective is to block the primary ripple frequency. There are other cases of "tuning" games. One is where the LC parallel combination is intended to offset another LC combination of the choke and a preceding and/or following filter capacitor.

The two places I can think of low-frequency tuning being used are in the case of vibrator power supplies (buffer capacitor in parallel with transformer secondary) and the classic points-coil-condensor automobile ignition system devised by Charles Kettering.

What I am waiting for is one of the green felt pen toob audio types to add a half farad or so to a power supply with a choke in it and get series resonant pass of the primary hum frequency.

I'll have to go look at the texts and see what else is said about the wisdom (or unwisdom) of resonant filters in power supplies.

--

=====
Hank van Cleef
=====

From: Ho4bart <Ho4bart@aol.com>
Message-ID: <b2611117.35273ddc@aol.com>
Date: Sun, 5 Apr 1998 04:16:27 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: Very large capacitors and inductors
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-03-20 17:19:03 EST,
B.H.Jarvis@hw.ac.uk transmitted:

> See also photos of 1920s broadcasting personalities. They
> had to sit by the mike, which usually meant under 3 ft from
> the multi-kilowatt tank coil!

---this would apply only to earliest stations employing loop or series
carbon microphone modulation, would it not? (where there was not
audio amplification of the microphone.)
And, if this be the case in such photos, the power would more likely
be in the 50- 100 watt range, no?
which was the general power level of the earliest broadcast stations.
hue

From: Ho4bart <Ho4bart@aol.com>
Message-ID: <9638a66c.352746df@aol.com>
Date: Sun, 5 Apr 1998 04:54:52 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: Lafayette KT-200 (way too long)
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-03-30 14:06:26 EST,
rau@wco.com writes:

> Brian... I owned one once.. and aligned it with no manual or
> schematic....this is a "better than hallifcrafter " look -alike
>made in the 60's by Trio (Kenwood) in Japan.

---couldn't resist a nostalgia upload:

Trio probably at least saved money on hiring a designer, as they just told the MEs, "we want it to look like this one (S-38)". But it did offer higher value for money, and unlike *some* well known US makes, the IF cans are still adjustable going on 35 years later.

One feature i liked was the hinged top lid. With the relatively low tube type count, you could lift up the lid and move tubes around to get the best ones up toward the front end. Also if you had a lot of message traffic to clear on a hot summer night, you could keep the set a little cooler by using a pencil to prop the lid wide open. Just like a real pro, at some coconut plantation station. But i wasn't into cw, then; i liked to stay up a big part of the night listening to huayn-o and yaravi tunes from Peru. I cut the base off a 6BA6 (all glass!) and made an adaptor to plug in a 'hotter' tube in the front end; changed the BFO to a 'Q multiplier', moved the s-meter control inside the cabinet and then used the front panel 's-meter adjust' to control the 'Q mult'.

After i learned a little more about radio, it puzzled me why the designers used 6BD6s in the rf and if, when the average user would go and replace them with 6BA6s at the first opportunity. And the numbers on the frequency scale, they aren't vertical for your reading ease, the numbers are on the dial as if designed for a more usual north/south instead of east/west semicircles dials, so did the designers think if you wanted to get the last hair of accuracy, you could simply crank your neck 90 degrees left??

My father and i picked this set by comparing its features against the receivers listed in the 1962 Radio TV Experimenter magazine article "How to pick a Short Wave Receiver". At \$65 for the kit, it offered the most RF + IFs for the money. But a BC-348 would have been nicer, had i known they existed.

hue

Date: Sun, 5 Apr 1998 06:18:12 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: Watkins Johnson manuals wanted
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199804050618_MC2-3900-A283@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

I am in need of the following manuals:

WJ9395 tunable demodulator and WJ-8615D(S1) VHF/UHF rx

cheers, Ben G4BXD.

Message-Id: <199804051101.HAA19755@smtp3.erols.com>
Date: Sun, 05 Apr 98 06:03:23 -0700
From: philip mccoey <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re RAYTHEON tubes
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii

the 1642 was used in the RU receivers

Message-Id: <199804051106.HAA19970@smtp3.erols.com>
Date: Sun, 05 Apr 98 06:08:28 -0700
From: philip mccoey <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re Geloso
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii

John Geloso came to the US in the 1920s and worked for pilot, as stated in an earlier posting. He went back to Italy and was involved in his own radio company. During WW2, he was declared too friendly with the US, and spent time hiding out in a barn. Condensers with the Geloso trade mark can be seen in old Italian and European radios.

Message-Id: <199804051116.HAA20379@smtp3.erols.com>
Date: Sun, 05 Apr 98 06:18:24 -0700
From: philip mccoey <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re reforming 'lytics
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii

In reforming electrolytics, you want to limit the reforming current to about 10ma or less. The usual way to do this is to operate the

radio from a Variac, gradually bringing the voltage up to 120 vac. The bad part of this is the rectifier tube is subjected to load, while operating at very reduced filament voltage, reducing the life of the rectifier tube. I use a solid state power supply I built up out of a small audio amp, to power the radio during forming. No filament voltage is supplied to the tubes. A millamp meter monitors the forming current. If there is a short circuit, the only thing damaged is the power supply I have made up. The radio's internal power transformer will be protected in this way.

Date: Sun, 5 Apr 1998 11:15:19 -0400
From: polepeeg@aaa4rm.ba-watch.org (BA Marina Electrician)
Message-Id: <199804051515.LAA01245@aaa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Re reforming 'lytics

I pull all the tubes & series, say, a 20k 10W wirewound between the rectifier & the set.

If there's a bleeder, this's got to be lifted off ground.

Cap.s then come back at their own speed & little 'tweekage' needed.

Further, leaky RC interstge cap.s & screen bypasses can be found right off with this "B+ gently applied w/o tubes" method.

Of course, series, say, a 100W light with the pwr xfrm'r primary - just in case.

Marty

Message-Id: <3.0.1.32.19980405102656.0068ff60@a.crl.com>
Date: Sun, 05 Apr 1998 10:26:56 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Phil Mills <pmills@a.crl.com>
Subject: WTB - electrolytics needed!
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My amp's HV supply has now suffered another catastrophic failure and I find I am in need of some elctrolytics. The present ones are 3" diameter 4" high 860 MF 450 VDC cans. I can buy similar ones from the electronics supply houses for \$25 up each....which the BA budget can not stand at this time. Does anyone know of a source for something like this or even ordinary axial lead high value 450 or 500 VDC electrolytics? I will need 10 of them.

Also, I need a .25 MF at 2500 volt or higher, preferably oil-filled type.

thanks & 73,
Phil

Phil Mills AB5TH
pmills@a.crl.com
Friendswood, TX

Message-Id: <199804051615.LAA28138@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Using The Archives
Date: Sun, 5 Apr 98 11:15:01 CDT

Gang-

This periodic post is designed to help everyone gain more value from their boatanchors subscription.

SAVE THIS FILE FOR FUTURE REFERENCE!!!!!! -- A FEW THINGS HAVE CHANGED!!!

Often I receive an email request, or I read on the list, of someone who is aware there is an archive available with some special files with special information that is of a more permanent nature than a post to the list, but who is unaware of how to retrieve these gems.

In the archives, there are cross-reference tables for Tubes, Military Equipment Nomenclature, suggestions for restorations and modifications to our beloved fire bottle rigs, and some wonderful stories of real adventures and the people involved.

These files may be accessed by email... quickly and easily.

Step One:

send an email (leave the subject blank, or, if your mailer requires a subject, type a single character, like "a" in the subject box) to:

listproc@sco.theporch.com

Step Two:

in the body type:

index boatanchors/stuff

Step Three:

after checking out the index for files of interest, and finding
the one or more you want to have sent to you, send another
email to:

listproc@sco.theporch.com

and, in the body, type:
get boatanchors/stuff file.name

where you substitute the name of the file from the index
for "file.name"

This should get you off to a good start. If you encounter any problems,
please let me know at the address below.

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"

From: JONWEINER <JONWEINER@aol.com>
Message-ID: <3bc04bdb.3527bf76@aol.com>
Date: Sun, 5 Apr 1998 13:29:25 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Hallicrafters for sale
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Space (or lack of it) is forcing me to part with my Hallicrafters station. The station consists of the SX-101A receiver, HT-32A transmitter, T.O. Keyer, R47 speaker, Hallicrafters "logoed" desk mic. (actually a Turner), all manuals, and even an original Hallicrafters desk logbook (with this rig on the cover). I would describe the condition as a 9.5 out of 10. Asking price for the complete station is \$600. Please do not ask me to separate any of the accessories. Because of the size and weight, these would be either for pick up at Greenville, SC, or delivery to Dayton.

Jon, K1VVC

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199804051855.LAA23852@netcom3.netcom.com>
Subject: Re: Reforming electrolytics (and bringing up old equipment)
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sun, 5 Apr 1998 12:55:17 -0600 (MDT)
Cc: boatanchors@theporch.com

MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As Scott Townley discourses

>

> I know it's been covered many times, and I should have saved them, but...
> Any advice on firing up electrolytic-capacitor-containing equipment for the
> first time in who knows how many years?
> Obviously a slow rise on a Variac is adviseable; any "let it set for so
> long" or regimens known to the community to increase my probability of
> success?

>

I've pretty well given up on going through drills to "reform" old electrolytics after having played with a bunch of them without getting much in the way of results.

On an old Tek 530 or 540 series scope, which draws 350-500 VA in normal operation, a lot of which is processed through cap filters, you don't have much choice other than to plug it in, turn it on, wait 30-45 seconds for the time delay relay to close, and see if it goes or blows. Generally, it goes. I hang five meters on the power supplies, and watch them as I power up. If they swing right up into position, you're in business. I limit "on" time to a couple of minutes on the first power-up, then run the scope for about 10 minutes 4-5 times, to assure that nothing gets overheated.

On a radio with an 80 or 5U4 type supply, I hang meters on the B+ line and the screen line (typically 100 volts). Turn the thing on, and see if the meters whoosh up to proper value when the rectifier heats up, about 3 seconds after turn on. The screen line will generally go up to B+, then down to 100 volts at 10-12 seconds when the other tubes heat up in a small radio, unless there's a bleeder arrangement or VR tube. Watch the voltages swing up (and down), then shut the thing off, a couple of times, to assure that there's no overheating if some cap does take a bunch of current.

I've trickled caps at 1 ma. and watched them take 24 hours to rebuild the barrier, only to discover that most of the capacitance leaked out of the cap. So I don't really bother with this any more.

If it didn't originally have fusing in the primary power, put one in. If the fuse holds, and voltages come up, you're in business. Of course, there is no substitute for a mechanical and electrical inspection (ohmmeter work) before powering up, but this is much more likely to find serious faults than trying to use 50 volts on the input. Besides, some equipment (Tek scopes) doesn't take very kindly to being run on low line voltages below about 100-105 volts.

Most of the original FP and similar can type caps I have that were installed in the 1940's and 50's are still in the units, capping away quite adequately. I know that some of those boxes sat 20 years or more unpowered before I brought them up on full line voltage.

--

=====
Hank van Cleef
=====

Message-Id: <3.0.32.19980405144728.007f8140@mail.wt.net>
Date: Sun, 05 Apr 1998 14:51:10 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@WT.NET>
Subject: Re: Re reforming 'lytics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My personal favorite method is to disconnect the electrolytics, and reform with an external, metered supply. You can easily adjust voltage while watching current, no B+ goes to tubes that may not like it, no stress on the rectifier tube... I like to stay under 5 ma current myself, but the 10 ma that other recommend is probably safe...

73,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: ***down for refurbishment***
"An ye harm none, do what ye will."

Date: Sun, 5 Apr 1998 13:45:39 -0700 (PDT)
Message-Id: <2.2.16.19980405134522.0e4f82cc@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: Zzzzt! Ow!

I picked up a cute little Ameco code practice oscillator at the Livermore swap meet today. I'd been looking for one for some reason. It came with a bit of speaker wire attached to the Key terminals. So naturally when I got home I plugged it in and shorted the ends of the two wires together and was

rewarded with an appropriately raw tone from the speaker. It works! I even noted that my skin resistance when handling the two wire ends was enough to make the thing sound off and that I could vary the tone by squeezing the wires.

The next step was to attach the Mac key to it for a lusty bout of self-directed Morse. In the process of hooking up the same two wired to the key I got a nice zap when I got across the key contacts. In the best tradition of Homer Simpson it did it at least twice more before investigating. Judicious probing with the Simpson 260 revealed something like 200V across the key terminals!

Does anyone know why this should be or does anyone have a schematic for the Ameco box so I can figure it out? And why didn't I get a shock when fooling around with the wires earlier? And what did they do with all those shocked Novices who used this thing in the 50s? In the absence of such information I will be forced to conclude that the Mac was generating the voltage.

The only thing that happened between the first and second use of the oscillator was that I cleaned it up with Scrubbing Bubbles (tm). Say... you don't suppose...

D.

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Message-Id: <199804052048.QAA18797@camel8.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 05 Apr 1998 16:47:48 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Moore Coil winder-anyone ever use one?

Guess what followed me home from the Raleigh 'fest...?
(OK...a whole bunch of stufh...!) but one of the treasures was
this Moore coil winder complete with instructions, cams and gearsets.
I'll offer to make copies for anyone who wants a copy of the instructions
sheets (for a SASE) but I'd like to know if folks used these things?
Looks like it should work, but does anyone have any firsthand experience?

Got it in its original box from Allied..doesnt look like it's ever been used.

Neat stuff!

Also got an original Bud station logbook, quite a few parts and pieces ... fun... but hamfesting on daylight savings transition days is TOUGH!!!!!!!!!!!!

/John
wb5oau

```
+-----+
|Wanted:      Howard Co. receiver/acc'ys/docs   |
|              AWA-OTB back issues...           |
|              Harvey Wells R9 rx                |
|              ----- WB50AU/4   AMI #24 ----- |
|              johnmb@mindspring..com           |
+-----+
```

End of BOATANCHORS Digest 2000
